Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)				
2016	GHZXL1.95C50	1.951	Diesel	5000				
	L FEATURES & EMISSION (TYPICAL EQUIPMENT APPLICATION					
Electror Exhaust	nic Direct Injection, Diesel Gas Recirculation, Electro Turbocharger, Charge A	Oxidation Catalyst, onic Control Module, vir Cooler,	Pump, Compressor, Generator					

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED	EMISSION				EXHAUST (g/kw-l		OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		NMHC	NOx NMHC+NOx		со	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	37 Tier 4 Final STD		N/A	N/A	4.7	5.5	0.03	N/A	N/A	N/A
		CERT			4.0	0.4	0.01			

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this

_ day of June 2016.

Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT 1 OF 1

Detailed engine models summarization of the engine family GHZXL1.95C50



EPA Engine	Model	Engine	Engine	Rated	Rated	Fuel Rate	Maximum	Speedat	Fuel Rate	Maximum	Torque at	Maximum	Intermediat	Lower	Upper	Emission Control System
Family Name	Year	Model	Code	engîne	Speed	at Rated	Torque	Maximum	at	Test	Maximum	Engine	e Test	Tolerance	Tolerance of	
				power	(RPM)	Speed	(N°m)	Torque	Maximum	Speed	Test	Power (kw)	Speed	of	Maximum	
				(kW)	, ,	(mm3/strok	, ,	(RPM)	Torque	(RPM)	Speed		(RPM)	Maximum	Power(%)	
				` .		e)			(mm3istrok		(N°m)			Power(X)		
GHZXL13SCS0	2016	4H50TIC	1800-con-36.4	35.4	1800	47,5	193,1	1800	47,6	1800	193,1	36,4	NA	3,0	3,0	DDI, DOC, EGR, ECM, TC, CAC
GHZYL195C50	2016	4HSOTIC	1500-con-28.7	28.7	1500	47.4	182.7	1500	47,4	1500	182,7	28,7	NA.	3,0	3,6	DDI, DDC, EGR, ECM, TC, CAC